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XIV Forum Internazionale di Studi

Le Vie dei
Mercanti

Carmine Gambardella



WORLD HERITAGE and DEGRADATION
Smart Design, Planning and Technologies

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**WORLD HERITAGE and DEGRADATION
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Conference topics:

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WORLD HERITAGE and DEGRADATION
Smart Design, Planning and Technologies
Le Vie dei Mercanti
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Peer review

Scholars has been invited to submit researches on theoretical and methodological aspects related to Smart Design, Planning and Technologies, and show real applications and experiences carried out on this themes.

Based on blind peer review, abstracts has been accepted, conditionally accepted, or rejected.

Authors of accepted and conditionally accepted papers has been invited to submit full papers. These has been again peer-reviewed and selected for the oral session and publication, or only for the publication in the conference proceedings.

Conference report

300 abstracts received from:

Albania, Benin, Belgium, Bosnia and Herzegovina, California, Chile, China, Cipro, Cuba, Egypt, France, Germany, Italy, Japan, Jordan, Kosovo, Malta, Massachusetts, Michigan, New Jersey, New York, New Zealand, Poland, Portugal, Russia, Slovakia, Spain, Tunisia, Texas, Turkey.

More than 550 authors involved.

212 papers published.

Preface

The theme of the XIV Forum “Le Vie dei Mercanti” is an international discussion on the disciplines of architecture, design and landscape through the presentation of research and operational projects on the conservation and valorisation of World Heritage and “smart” regeneration of degradation, with analyses and proposals ranging from the design at all scales, to architectural assets, the territory, infrastructures and the landscape. Academics, along with professionals who have a role in the governing, managing and controlling of public agencies, institutions and the business world are invited to submit papers related to design objects, architecture and landscapes. This is with the aim of conserving and recovering, valorising and regenerating, managing and designing (or re-designing), for the more general improvement of the quality of life, in an innovative and contemporary relationship between man and the environment, through “beauty”, while respecting the history, traditions, identity and principles of sustainable development, as well as being attentive to the needs of our and future generations. Internet of Everything, smart design, planning and technologies, building information modelling, in this age of globalization, have become operational tools – that alongside the traditional ones of the profession – for the protection and promotion of the World Heritage, are considered as well as shared by the whole of Humanity, and the regeneration of the degradation and the “Minor Heritage”, in all aspects, and as contemplated by the UNESCO Conventions on tangible and intangible assets and the European Landscape Convention. The event aims to create a critical transversal dialogue, open to cultural and “unlimited” influences, in a logic of integration between the skills that extends, and is not limited, to the following disciplines: anthropology, architecture, archaeology, history art, cultural geography, design, ethnology and folklore, economy, history, landscape, museum management, philosophy and political science, urban history and sociology, cultural tourism, planning and integrated management. The location is exceptional. Campania, with six sites included in the World Heritage List, two UNESCO Man and Biospheres, two sites on the List of Intangible Heritage, is one of the richest regions in the world for cultural and landscape heritage.

Carmine Gambardella



WORLD HERITAGE AND DEGRADATION

Smart Design, Planning and Technologies

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From House Of The Mother And Child Onmi To Youth House

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Abstract

The rationalist architecture in Italy, born in the Fascist period, represents an important experience in urban design. Urban areas, new residential buildings and specialistic architectures, characterize the cities and the buildings of the fifties. The applied research to teaching, studies these architectures and aims to encourage the recovery of actual architectural types, today do not conform to actual seismic and energy standards. The project of the ex House of the Mother and Child in Potenza, (built by ONMI in the fifties), is an example of sustainable rehabilitation of the disused building, not safeguarded by superintendents, but with existing potential. This work comes from a graduation thesis and consists in a sustainable "reactualization" of the building. The study, based on knowledge and survey, is aimed at urban regeneration and at reinterpretation of the architectural language. The hypothesis of reuse resumes the "original" destination but updated: a Youth House.

Keywords: rationalism, reuse, reactualization, sustainability, urban regeneration

1. Introduction

The experience that is documented in this paper is the result of research activities which look towards the city built and, therefore, towards the redevelopment and the regeneration of urban areas. For years, it's shifting the focus on modern architecture, with particular attention to the architecture of the thirties and the post-war. In fact, the rationalist architecture in Italy, although it has roots in the fascist period, represents an important experience in the design of cities since the fifties and sixties, as well as thirty years have been characterized by important urban planning that have reshaped the city and redefined the perimeters of the same. Entire urban areas, new housing estates, specialized architectures, characterize the recent past which has its manifestations in construction nor recent to be current and not too old to be protected.

It's on this heritage, of which cities are rich, that the research applied to teaching focuses, to sensitize the recovery of artifacts that are modern and functional typologically, but technically and technologically outdated compared to current seismic and energetic regulations.

It is a heritage which, however, has its strong identification and historical connotation and it implies, in most cases, architectural and urban quality. Therefore, attention to this heritage is more current than ever in the new logic of urban regeneration .

Taking a small historical digression, the city of Potenza abandons its medieval walls at the beginning of '900, when contemporary construction starts up new decentralized neighborhoods that become, over time, functional urban areas and self-sufficient, well-organized and designed according a precise drawing of city.

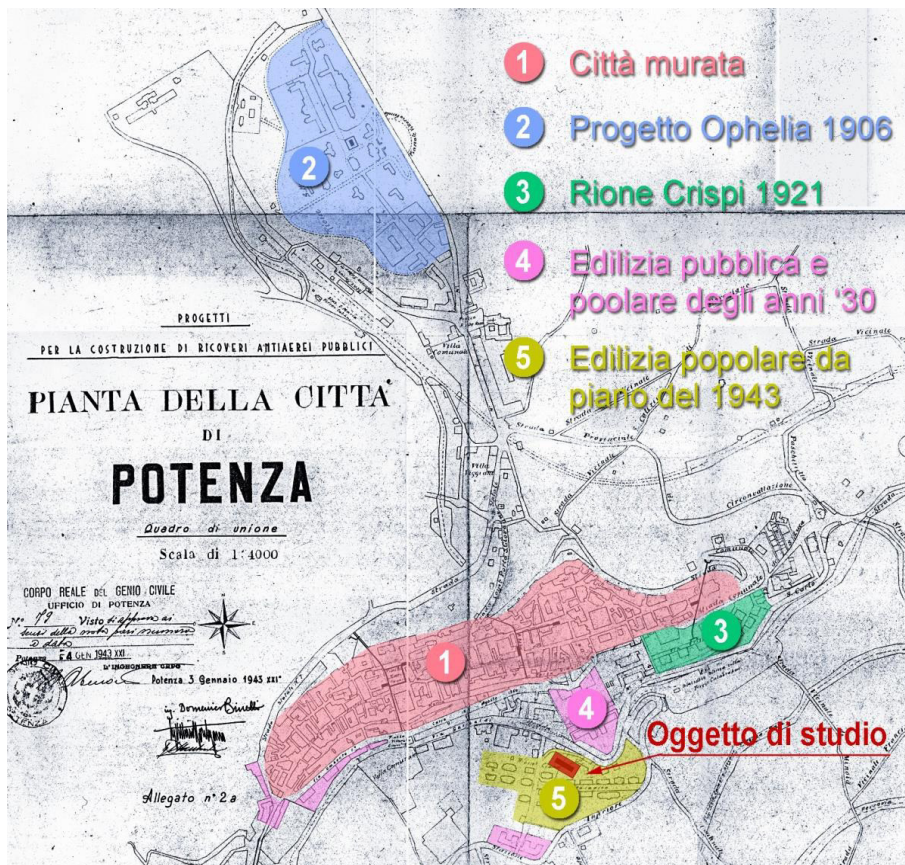


Fig 1. Map of the city of Potenza (Royal Corps of Civil Engineers, 1943), for the construction of public air-raid shelters. This mapping represents the historical evolution of the city from the early '900 up to the social housing plan that will be built in the postwar period

In this period, for example, Santa Maria district was born around Ophelia project by Giuseppe Quaroni and Marcello Piacentini in 1906 (Fig.2). The popular districts of the twenties and thirties as Crispi district or the construction on extramural streets, break through definitely the walls of the historic city; these districts are organized in a new city design as a logical expansion outside which corresponds to a rapid population growth. Starts, then, an exodus to the "new places" of the city or to new neighborhoods that ensure a better quality of living than that of "cuntane" ¹ and Potenza's alleys.

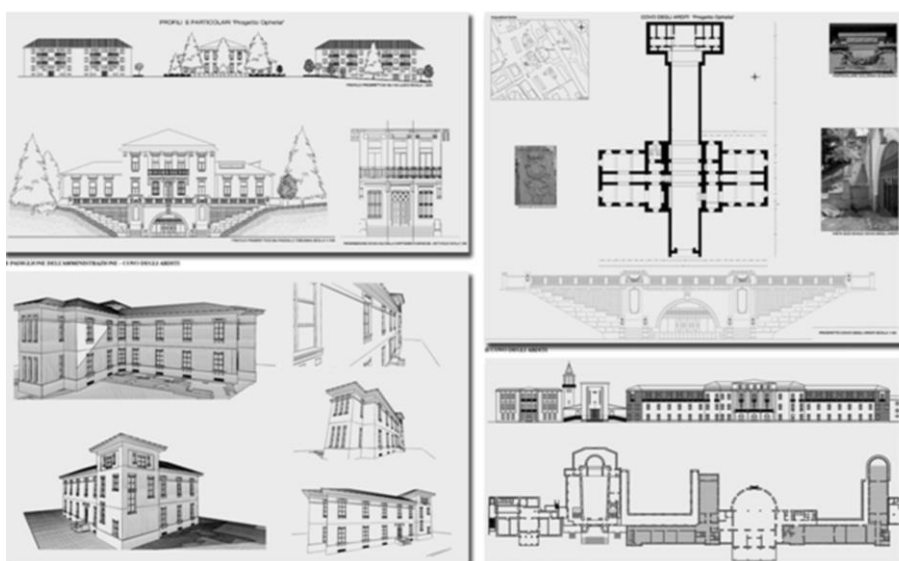


Fig 2. Drawing of the District of Santa Maria in Potenza, born as Ophelia Project of Eng. Giuseppe Quaroni and arch. Marcello Piacentini, 1906

This process of expansion, corresponding to a revolutionary concept of the city, continues still in the fifties and sixties when new popular neighborhoods like Verderuolo, Italia district, Risorgimento district etc., correspond to an idea of city-planned, well thought out, that has, even today, its strong consensus in the demanding citizen.

The object of study presented here is part of this historical and urban context: the ex House of the Mother and Child in Potenza, built by ONMI in the 50s. It's a specialist building situated in a popular area of new expansion, characterized by residential buildings, schools, churches, markets, in view of the periphery self-sufficient.

Beyond the "noble" social use of the building, it's interesting to find in the same a clear and typical architectural reference of the time, widely seen in the experience of Italian rationalist architecture in the specific intended use.

The project experience documented in this paper is part of a research aimed at the sustainable recovery of the disused building, not protected by the superintendents, but with current potential. The work on the ex House of the Mother and Child (ONMI) in Potenza, consist in the sustainable "reactualization" of the artifact, in a careful path of knowledge based on historical and archival research and on the architectural survey, aimed at urban, functional, technical and technology recovery with the reinterpretation of the architectural language. The hypothesis of reuse, in line with market requirements, resumes "original" target but actualized: a Youth House.

On the mapping shown in Figure.1, there is the popular neighborhood near Paladino avenue (called Ciano district) which is provided in the pre-war plan. The creation of the district will be a reality in the '50s. In this plan mapping is already planned the construction of the object of study, namely the House of the Mother and Child ONMI.

2. Ex House of the Mother and Child

The first step towards the regeneration project is definitely the stage of knowledge. It starts from the archival research of the building in question to the analysis of works of architecture built in Basilicata and in Italy during the rationalism, showing the similarities and differences. The construction of the House of the Mother and Child in Potenza, dates from around 1950 on the initiative of the National Maternity Childhood Organization (ONMI). The original function is the combination of different activities such as obstetric clinic, pediatric clinic, maternal refectory and nursery.



Fig 3. Photo survey of the state of the places

Currently the property is totally abandoned and unused and is part of the list of municipal property to be disposed of, therefore it's the object of sale to private entities. This can be, for the building, a new life, a new future based on the recovery and reuse.

In the path of knowledge and analysis, fundamental was the architectural survey phase that, through the measurement, analysis and representation allows to graphically reconstruct the study documentation that redefines the formal, structural and functional features of building object.

The building plan is almost rectangular, while the stairwell, located on the southwest side, is detached from the rest of the building with a body which rises to a height of 12.80 m from the street level. The building consists of two floors with a surface area of about 440 mq and a basement level that is developed for a limited area of the plan, approximately 200 mq.

The only structural intervention, documented by archival research and reported in the survey operation, has involved the building following the earthquake of 1980, with the construction of a pitched roof that covers the entire building except for the stairwell that remains with the flat roof.



Fig 4. Drawings of architectural survey

The resisting structure is made of non-square and irregular stone masonry; the floors are a brick and cement combo high 30 cm with curbs 50x25 cm size; finally, the foundations are made of reinforced concrete curbs on bored piles.

The knowledge of the material and its conservation status is a prerequisite for designing and evaluating the different possibilities of intervention. It has been done a thorough pathological survey, able to identify the causes and effects of degradation of their components, as well as performance and energetic verification and the seismic vulnerability verify. The building, from the energy point of view, is totally inefficient, in fact, it is part of class G, the last among the categories. In the proposed project is supposed to work in order to significantly increase its performance and minimize its consumption, limiting in this way the environmental impact and pursuing the goals of sustainability and energy saving, as well as the reactualization of the building.

3. The redevelopment project: Youth House

When we talk about urban and architectural recovery, it is often thought to return to the original state of a building that deletes its state of degradation. It has the desire, for example, to give back the plaster fallen over time to the walls, to clean up the signs that time has left. However the desire to "recover" is not born of mere intention to restore the old walls as a matter of decorum, but also by the desire to bring life back to a place: the building wants to be recovered both in its physical form as in its valence of place falling in the "city" system.

The "place" object of study, in the proposal, based its regeneration and reuse in the choice of the new function that is a return to the past: a "Accommodation Community". This reuse plan to host minors who need to be removed from their families for short or long periods. This choice is based on real needs identified in a market research and on the real interest of local entrepreneurs that work in the social field.

The functional design goes hand in hand with that of recovery. As well as it has recovered its original function, adapting it to modern times, the project aims to rediscover the historical and material identity of the building, integrating in it contemporary solutions consistent with the character of the work that not prevail over it. The basic idea of the project is to preserve and valorize the Rationalist building, proceeding according to modern methods of recovery and urban regeneration.

The choice of the new function, in agreement with what just said, allows to maintain the internal and external features of the building; furthermore it is the answer to the need for a structure of this type in the regional capital. In any case, the building and its new feature will join over time in the imagination of its inhabitants creating a new center and a new reference for the community.

The project is divided into several phases:

- philological recovery of the building, preserving and valorizing the typological and formal characteristics of the original project, respecting and proposing, therefore, the rationalist project and making it visible in its entirety;
- static and seismic improvement, with measures to make the structure appropriate to contemporary regulatory standards and to laws antiseismic;
- renovation of the systems for adaptation to the intended function and to contemporary normative standards of energy saving;
- Interior design;

- Outside design.

The project idea, born in order to preserve as much as possible the existing building volumes and spaces, aims to make a controlled modification strategy of formal external image that is conjugated to technological and functional optimization.

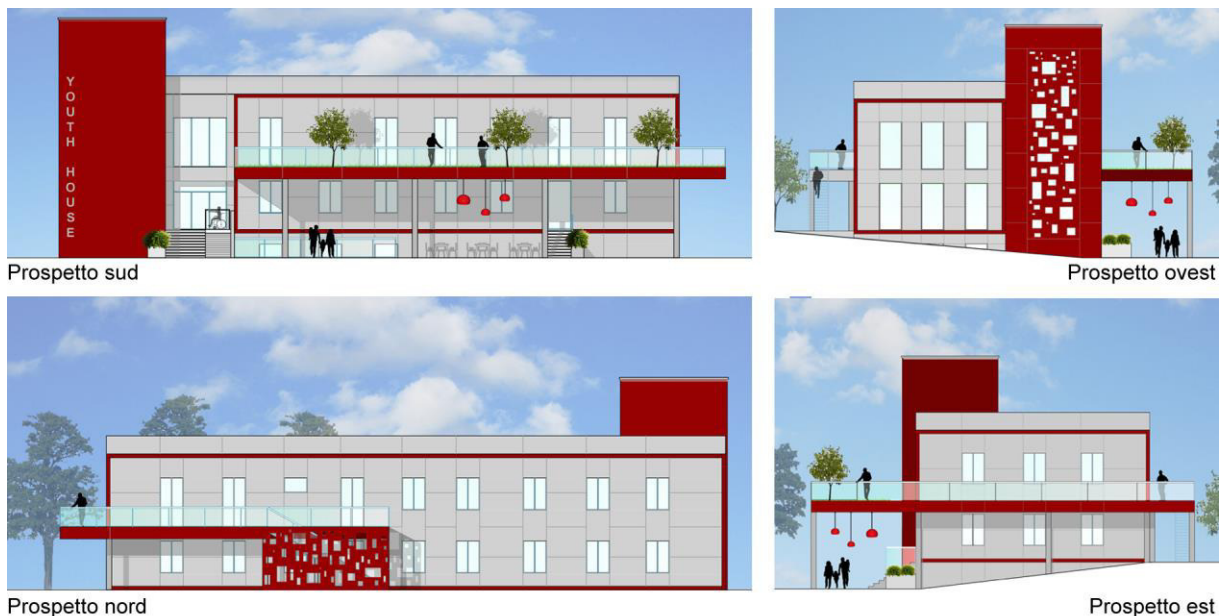


Fig 5. Project elevations

In the project we wanted to maintain the separation between the stairwell and the "horizontal" body, making it clear through the contrast of colors and the irregular punching of the coating, and also with the demolition of the pitched roof, for a return to the original condition as well as for the decay of the roof structure. The windows have remained almost unchanged. The original rationalist architectural language was therefore respected, proposing simple and net volumes, the preponderance of the line and right angles and the use of prefabricated elements such as Corian® sheets for the ventilated facade cladding. The terrace is a recurring motif in buildings made by the ONMI, and the project propose it such a characteristic element. In fact, on the first floor, the little balcony was replaced by a large roof garden that is a meeting place for young guests.

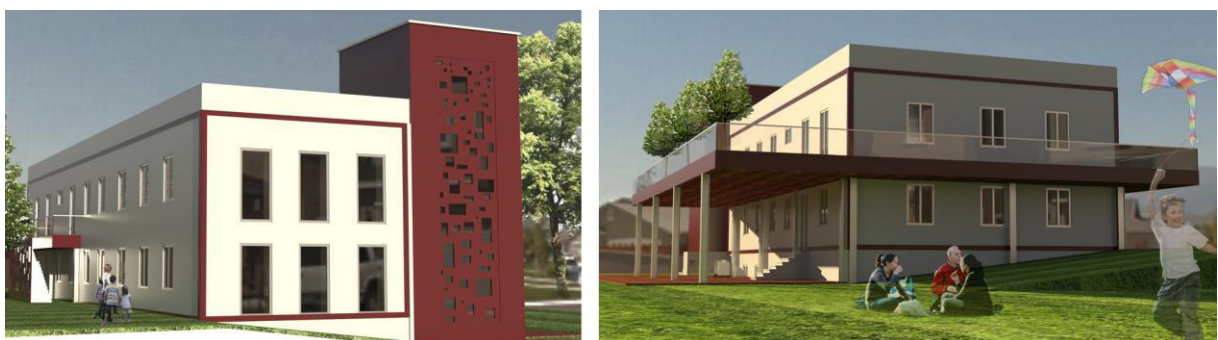


Fig 6. Project Rendering

Other interventions on the structure concern the horizontal and vertical closures, in order to improve the energy performance of the building.

The existing pitched roof has been removed and, considering the altitude of the Potenza area, it has been replaced by a sloping roof hidden by the parapet in Corian®. The real roof is the flat hot roof. The pitched roof, in reality, constitutes the photovoltaic and thermal system having a steel structure.

It's also provided for a rainwater recovery system that occurs thanks to the downpipes, incorporated into the ventilated wall, and thanks to a tank of 30,000 liter capacity.

After the interventions proposed, it was carried out the energy verify of the new building casing, which, from the class G of the status quo, passed in class A +, the maximum attainable, so it meets the

standards of passive buildings. This result transforms the structure in a strongly "attractive" building on the property market, as it is competitive with today's standards of new constructed building.

4. **Conclusions**

The experience of study, briefly documented in this paper, responds to the diffused problem in our cities, namely to the problem of abandoned buildings in the city limits. The abandonment of this properties often comes from "management" problems that, with high energy costs associated with the inevitable costs of structural improvement, can make the use impractical and not cost-effective. But, nowadays, an investment aiming at the performance improvement of a building can be convenient since the capital to invest could rebuild itself in a reasonable period. In addition, the recovery of a building that is part of the city areas, it can trigger the re-stitching of spaces and functions, today interrupted by these urban "empty".

The abandonment of the obsolete "boxes" interested, more, recent construction that, in his fifty, sixty years of history, hasn't a value to be subject to protection. The research applied to this realities constructed, gives back to recent history and to its architectural expression, the value it deserves. The whole process of knowledge that revolves around the "survey" is certainly at the center of a development path that is, in the adopted model, a good and efficient tool that is expandable to similar situations.

Notes

1. The cuntane are the characteristic alleys of Potenza that had the only outlet to the main street and were closing on the outside perimeter of the city

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